

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits  | Search Query   | DBs                    | Default Operator | Plurals | Time Stamp       |
|-------|-------|--|------------------------|------------------|---------|------------------|
| L1    | 17    | "55/482".ccls. and (nonwoven or spunbond or meltblown) and (hotmelt or (hot adj melt) or glue or adhesive) and paper | US-PGPUB; USPAT; USOCR | OR               | OFF     | 2010/08/25 17:49 |
| L2    | 109   | "55/486".ccls. and (nonwoven or spunbond or meltblown) and (hotmelt or (hot adj melt) or glue or adhesive) and paper | US-PGPUB; USPAT; USOCR | OR               | OFF     | 2010/08/25 17:49 |
| S1    | 0     | "2027313.2"  | EPO                    | ADJ              | ON      | 2008/08/18 16:34 |
| S2    | 0     | "2027313"  | EPO                    | ADJ              | ON      | 2008/08/18 16:34 |
| S3    | 5     | "2027313"  | DERWENT                | ADJ              | ON      | 2008/08/18 16:34 |
| S4    | 472   | denier   | EPO                    | ADJ              | ON      | 2008/08/19 16:29 |
| S5    | 27420 | denier   | US-PGPUB; USPAT        | ADJ              | ON      | 2008/08/19 16:29 |
| S6    | 505   | (nonwoven or (non adj woven)) near6 vacuum   | US-PGPUB; USPAT        | ADJ              | ON      | 2008/08/19 16:38 |
| S7    | 331   | (nonwoven or (non adj woven)) near6 vacuum and @ay<"2003"  | US-PGPUB; USPAT        | ADJ              | ON      | 2008/08/19 16:40 |
| S8    | 34    | (nonwoven or (non adj woven)) near6 (vacuum adj cleaner) and @ay<"2003"  | US-PGPUB; USPAT        | ADJ              | ON      | 2008/08/19 16:41 |
| S9    | 5     | "5855992"  | US-PGPUB; USPAT        | ADJ              | ON      | 2008/08/20 15:00 |

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|-----|------|--|------------------------|-----|-----|------------------|
| S10 | 2642 | (nonwoven or (non adj woven)) near6 ((pore adj size) or diameter)  | US-PGPUB; USPAT        | ADJ | ON  | 2008/08/20 15:10 |
| S11 | 2696 | (nonwoven or (non adj woven)) near6 ((pore adj size) or diameter)  | US-PGPUB; USPAT; USOCR | ADJ | ON  | 2008/08/20 15:10 |
| S12 | 665  | (nonwoven or (non adj woven)) near6 ((pore adj size) or diameter) near6 ". mu.m"   | US-PGPUB; USPAT; USOCR | ADJ | ON  | 2008/08/20 15:11 |
| S13 | 1    | 10/537641  | US-PGPUB; USPAT; USOCR | ADJ | ON  | 2008/08/20 15:29 |
| S14 | 200  | pulverized adj polymer   | US-PGPUB; USPAT; USOCR | ADJ | ON  | 2008/08/20 15:37 |
| S15 | 2    | pulverized adj polymer near6 adhesive  | US-PGPUB; USPAT; USOCR | ADJ | ON  | 2008/08/20 15:42 |
| S16 | 81   | (spunbond or spunlace) and (meltblown or melt blown) and paper and (hotmelt or hot melt) and weight and diameter and permeability and pore size and @ay<"2003" | US-PGPUB; USPAT; USOCR | ADJ | ON  | 2008/08/20 17:10 |
| S17 | 13   | "6193773"  | US-PGPUB; USPAT; USOCR | ADJ | ON  | 2008/08/20 17:37 |
| S18 | 1    | "338479"   | EPO                    | OR  | OFF | 2008/08/21 11:21 |
| S19 | 26   | "5080702"  | US-PGPUB; USPAT; USOCR | ADJ | ON  | 2008/08/21 13:58 |
| S20 | 214  | (55/382).OCLS.   | US-PGPUB; USPAT; USOCR | OR  | OFF | 2008/08/21 14:01 |
| S21 | 1007 | (55/482).OCLS.   | US-PGPUB; USPAT; USOCR | OR  | OFF | 2008/08/21 14:34 |
| S22 | 1015 | (55/486).OCLS.   | US-PGPUB; USPAT; USOCR | OR  | OFF | 2008/08/21 14:37 |

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| S24 | 15  | "55/482".ccls. and (nonwoven or spunbond or meltblown) and (hotmelt or (hot adj melt) or glue or adhesive) and paper | US-PGPUB; USPAT; USOCR | OR  | OFF | 2008/08/21 14:40 |
| S25 | 100 | "55/486".ccls. and (nonwoven or spunbond or meltblown) and (hotmelt or (hot adj melt) or glue or adhesive) and paper | US-PGPUB; USPAT; USOCR | OR  | OFF | 2008/08/21 14:42 |
| S26 | 370 | airlaid near1 nonwoven   | US-PGPUB; USPAT; USOCR | OR  | OFF | 2008/08/21 16:07 |
| S27 | 0   | airlaid near1 nonwoven near1 paper   | US-PGPUB; USPAT; USOCR | OR  | OFF | 2008/08/21 16:09 |
| S28 | 1   | airlaid near1 (nonwoven or non woven) near1 paper  | US-PGPUB; USPAT; USOCR | OR  | OFF | 2008/08/21 16:09 |
| S29 | 1   | "6171369".pn. and air and laid   | US-PGPUB; USPAT; USOCR | OR  | OFF | 2008/08/21 16:16 |
| S31 | 1   | "6171369".pn. and ".mu.m" and fiber and diameter and melt  | US-PGPUB; USPAT; USOCR | OR  | OFF | 2008/08/21 16:24 |
| S32 | 1   | "6171369".pn. and polypropylene and spunbond   | US-PGPUB; USPAT; USOCR | OR  | OFF | 2008/08/21 16:48 |
| S34 | 1   | "6171369".pn. and glue   | US-PGPUB; USPAT; USOCR | OR  | OFF | 2008/08/21 17:06 |
| S35 | 1   | "6171369".pn. and adhesive   | US-PGPUB; USPAT; USOCR | OR  | OFF | 2008/08/21 17:07 |
| S36 | 1   | "6171369".pn. and adhesive and hotmelt and "g/m. sup.2"  | US-PGPUB; USPAT; USOCR | OR  | OFF | 2008/08/21 17:10 |
| S37 | 0   | "6171369".pn. and (adhesive or hotmelt) near7 "g/m. sup.2"   | US-PGPUB; USPAT; USOCR | OR  | OFF | 2008/08/21 17:12 |
| S38 | 61  | dry adj bond adj adhesive  | US-PGPUB; USPAT; USOCR | OR  | OFF | 2008/08/21 17:14 |
| S39 | 0   | spunbond air-laid spunbond melt-blown spunbond   | US-PGPUB; USPAT; USOCR | ADJ | OFF | 2008/08/28 19:58 |

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|-----|-----|--|---------------------------|------|-----|---------------------|
| S40 | 0   | spunbond air<br>spunbond melt<br>spunbond  | US-PGPUB;<br>USPAT; USOCR | NEAR | OFF | 2008/08/28<br>19:58 |
| S41 | 138 | six-ply  | USPAT                     | OR   | OFF | 2008/08/28<br>20:08 |
| S42 | 241 | six-ply  | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2008/08/28<br>20:08 |
| S43 | 27  | six-ply and (spun or<br>spunbond)  | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2008/08/29<br>07:49 |
| S44 | 1   | "6171369".pn. and<br>fleece and (spunlace<br>or spun or<br>spunbond)   | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2008/08/29<br>09:22 |
| S45 | 1   | "6171369".pn. and<br>permeability and<br>paper and laid  | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2008/08/29<br>10:10 |
| S46 | 19  | spray near6 ((hot<br>adj melt) or hotmelt)<br>near6 (nonwoven or<br>(non adj woven))   | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2008/08/29<br>12:44 |
| S47 | 1   | "6171369".pn. and<br>pressure and<br>(calendar or<br>calender)   | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2008/08/29<br>12:59 |
| S48 | 15  | spray near6 ((hot<br>adj melt) or hotmelt)<br>near6 (nonwoven or<br>(non adj woven))<br>SAME3 pressure   | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2008/08/29<br>13:09 |
| S49 | 15  | spray near6 ((hot<br>adj melt) or hotmelt)<br>near6 (nonwoven or<br>(non adj woven))<br>SAME3 (pressure<br>force or weight or<br>pressed or press) | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2008/08/29<br>13:18 |
| S50 | 10  | spray near6 ((hot<br>adj melt) or hotmelt)<br>near6 fiber SAME3<br>(pressure force or<br>weight or pressed or<br>press)                            | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2008/08/29<br>13:23 |
| S51 | 10  | spray near6 ((hot<br>adj melt) or hotmelt<br>or (hot near glue))<br>near6 fiber SAME3<br>(pressure force or<br>weight or pressed or<br>press)      | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2008/08/29<br>13:25 |

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| S52 | 809  | spray near6 ((hot adj melt) or hotmelt or (hot near glue)) SAME3 (pressure force or weight or pressed or press)      | US-PGPUB; USPAT; USOCR | OR   | OFF | 2008/08/29 13:26 |
| S53 | 614  | spray near6 ((hot adj melt) or hotmelt or (hot near glue)) SAME3 (pressure or force or pressed or press)             | US-PGPUB; USPAT; USOCR | OR   | OFF | 2008/08/29 13:28 |
| S54 | 2    | hot near glue near box   | US-PGPUB; USPAT; USOCR | OR   | OFF | 2008/08/29 14:00 |
| S55 | 143  | hot melt glue gun  | US-PGPUB; USPAT; USOCR | NEAR | OFF | 2008/08/29 14:03 |
| S56 | 1282 | "sauer".in.  | EPO                    | ADJ  | ON  | 2008/08/29 15:15 |
| S58 | 16   | (sauer near ralf).in.  | US-PGPUB; USPAT        | ADJ  | ON  | 2008/08/29 15:15 |
| S59 | 12   | (schultink near jan).in.   | US-PGPUB; USPAT        | ADJ  | ON  | 2008/08/29 15:17 |
| S60 | 2    | (schultink near jan).in. and hotmelt   | US-PGPUB; USPAT        | ADJ  | ON  | 2008/09/02 09:50 |
| S61 | 1    | (sauer near ralf).in. and hotmelt  | US-PGPUB; USPAT        | ADJ  | ON  | 2008/09/02 09:52 |
| S62 | 0    | (sauer near ralf).in. and hotmelt  | EPO                    | ADJ  | ON  | 2008/09/02 09:52 |
| S63 | 0    | (sauer near ralf).in. and (hot near melt)  | EPO                    | ADJ  | ON  | 2008/09/02 09:52 |
| S64 | 52   | (sauer near ralf).in.  | EPO                    | ADJ  | ON  | 2008/09/02 09:52 |
| S65 | 0    | "4178157"  | EPO                    | ADJ  | ON  | 2008/09/02 09:57 |
| S66 | 42   | "4178157"  | US-PGPUB; USPAT        | ADJ  | ON  | 2008/09/02 09:57 |
| S67 | 343  | ("g/m.sup.2" or "lb/ft.sup.2" or "lb/in.sup.2" or "g/in.sup.2") near6 ((hot adj melt) or hotmelt or (hot near glue)) | US-PGPUB; USPAT; USOCR | OR   | OFF | 2008/09/02 10:08 |
| S69 | 36   | MFP and textile  | US-PGPUB; USPAT; USOCR | NEAR | OFF | 2009/08/04 14:27 |

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| S70 | 23   | "2792076"  <br>"2848062"  <br>"3094083"  <br>"3273322"  <br>"3350857"  <br>"3370406"  <br>"3452520"  <br>"3479802"  <br>"3498031"  <br>"4125219"  <br>"4589894"  <br>"5080702").PN. OR<br>("6251154").URPN. | US-PGPUB;<br>USPAT; USOCR | NEAR | OFF | 2010/01/06<br>13:17 |
| S72 | 282  | (spunbond OR (spun<br>ADJ bond)) AND<br>((hot adj melt) or<br>hotmelt or glue OR<br>adhesive) AND (MFP<br>OR (average near3<br>pore near3 size))  | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2010/01/07<br>10:27 |
| S73 | 2143 | (spunbond OR (spun<br>ADJ bond)) AND<br>(calendering OR<br>calendered OR<br>calender)   | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2010/01/07<br>12:07 |
| S74 | 5663 | (spunbond OR (spun<br>ADJ bond)) AND<br>weight and<br>(diameter OR denier<br>OR fineness) and<br>(pore size)  | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2010/01/07<br>12:30 |
| S75 | 1449 | (spunbond OR (spun<br>ADJ bond)) SAME3<br>weight SAME3<br>(diameter OR denier<br>OR fineness) SAME3<br>(pore size)  | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2010/01/07<br>12:31 |
| S76 | 147  | (spunbond OR (spun<br>ADJ bond)) AND<br>((hot adj melt) or<br>hotmelt or glue OR<br>adhesive) AND (MFP<br>OR (average near3<br>pore near3 size))<br>AND @ay<"2003"  | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2010/01/07<br>12:31 |
| S77 | 744  | (spunbond OR (spun<br>ADJ bond)) SAME3<br>weight SAME3<br>(denier) SAME3<br>(pore size)   | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2010/01/07<br>13:28 |

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|-----|-----|---|---------------------------|------|-----|---------------------|
| S78 | 442 | (spunbond OR (spun<br>ADJ bond)) SAME3<br>weight SAME3<br>(denier) SAME3<br>(pore size) AND<br>@ay<"2003" | US-PGPUB;<br>USPAT; USOCR | OR   | OFF | 2010/01/07<br>13:29 |
| S79 | 31  | (spunbond OR (spun<br>ADJ bond)) SAME3<br>weight SAME3<br>(denier) SAME3<br>(pore size) AND<br>@ay<"2003" | US-PGPUB;<br>USPAT; USOCR | NEAR | OFF | 2010/01/07<br>14:40 |
| S80 | 4   | needle-tacked<br>polypropylene  | US-PGPUB;<br>USPAT; USOCR | NEAR | OFF | 2010/01/07<br>15:13 |
| S81 | 11  | needle-tacked WITH<br>nonwoven  | US-PGPUB;<br>USPAT; USOCR | NEAR | OFF | 2010/01/07<br>15:41 |
| S82 | 129 | point bonding WITH<br>spunbond  | US-PGPUB;<br>USPAT; USOCR | NEAR | OFF | 2010/01/07<br>15:55 |
| S83 | 1   | "4917942".PN.   | US-PGPUB;<br>USPAT; USOCR | NEAR | OFF | 2010/01/07<br>16:12 |
| S84 | 1   | "4941309".PN.   | US-PGPUB;<br>USPAT; USOCR | NEAR | OFF | 2010/01/08<br>10:43 |
| S85 | 1   | "6425978".PN.   | US-PGPUB;<br>USPAT; USOCR | NEAR | OFF | 2010/01/08<br>10:52 |

### EAST Search History (Interference)

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8/25/2010 5:50:12 PM

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